

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Rheum officinale*

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-------------------|------------|---------|----------|---------------------|--|
| 30 | (+)-CATECHIN | Rhizome | -- | 3628.6 | -1.0000000000000002 | |
| 30 | (+)-CATECHIN | Plant | -- | -- | | |
| 38 | (-)-EPICATECHIN | Rhizome | -- | 3437.5 | | |
| 24 | ALOE-EMODIN | Root | -- | -- | | |
| 24 | ALOE-EMODIN | Rhizome | -- | -- | | |
| 24 | ALOE-EMODIN | Plant | -- | -- | | |
| 24 | ALOE-EMODIN | Bulb | -- | -- | | |
| 6 | ANTHRAQUINONES | Rhizome | -- | -- | | |
| 6 | ANTHRAQUINONES | Root | 50000 | 50000 | 1.3513884921632264 | |
| 102 | CAFFEIC-ACID | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 4 | CALCIUM-OXALATE | Root | 60000 | 60000 | 2.4399617861191483 | |
| 6 | CHRYSOPHANIC-ACID | Root | -- | -- | | |
| 6 | CHRYSOPHANIC-ACID | Bulb | -- | -- | | |
| 6 | CHRYSOPHANIC-ACID | Rhizome | -- | -- | | |
| 10 | CHRYSOPHANOL | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 18 | CINNAMIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |

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|----------------|---------------|------------|---------|----------|--------------------|--|
| 4 | D-CATECHIN | Root | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| 58 | EMODIN | Plant | -- | -- | | |
| 58 | EMODIN | Bulb | -- | -- | | |
| 58 | EMODIN | Rhizome | -- | -- | | |
| 58 | EMODIN | Root | 3000 | 9000 | 1.2993201981258473 | |
| 61 | FERULIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 8 | FRUCTOSE | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 62 | GALLIC-ACID | Rhizome | -- | 25.7 | | |
| 62 | GALLIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 7 | GLUCOSE | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 3 | LINDLEYIN | Rhizome | -- | 1345.7 | | |
| 18 | OLEIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 9 | OXALIC-ACID | Rhizome | -- | -- | | |
| 13 | PALMITIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 24 | PECTIN | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

| Activity Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|----------------|-----------------------|------------|---------|----------|----------------------|--|
| 1 | PHENYL-PROPIONIC-ACID | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 5 | PHYSCION | Root | -- | -- | | |
| 5 | PHYSCION | Bulb | -- | -- | | |
| 5 | PHYSCION | Rhizome | -- | -- | | |
| 2 | PHYTOSTEROLS | Root | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 8 | PICEATANNOL | Plant | -- | -- | | |
| 1 | RHAPONTICIN | Root | -- | -- | | |
| 18 | RHEIN | Root | -- | 27 | -1 | |
| 18 | RHEIN | Plant | -- | -- | | |
| 18 | RHEIN | Rhizome | -- | -- | | |
| 87 | RUTIN | Plant | -- | 13000 | -0.48658427928331677 | |
| 87 | RUTIN | Root | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| 1 | SENNOSIDE-A | Plant | -- | -- | | |
| 5 | STARCH | Root | 150000 | 160000 | -0.6514767798388345 | |